CLAIMS

1. A biodegradable wax composition mainly comprising a wax, containing a biodegradable polymer and a filler, and having a moisture permeability of 3 g·mm/m^2·24 hr or less at 40°C and 90% RH.

2. The biodegradable wax composition according to claim 1, wherein the wax is present in an amount of 65% to 95% by weight.

3. The biodegradable wax composition according to claim 1 or 2, wherein the biodegradable polymer has a weight average molecular weight of 200,000 or higher.

4. The biodegradable wax composition according to claim 1, wherein the polymer is polyisoprene or natural rubber, and the polymer is present in an amount of 5% to 35% by weight.

5. A biodegradable laminate comprising a moistureproof layer comprising the biodegradable wax composition according to claim 1 and a biodegradable base layer on at least one side of the moistureproof layer.

6. A process of producing a wax composition mainly comprising a wax and containing a polymer and a filler, which comprises the steps of:

kneading the wax and the polymer to prepare a wax/polymer composition containing the wax as a main component and

kneading a filler into the wax/polymer composition.

7. The process of producing a wax composition according to claim 6, wherein

the wax/polymer composition comprises 50% to 95% by weight of the wax and 5% to 50% by weight of the polymer, and

the step of preparing the wax/polymer composition comprises a first kneading substep to prepare a masterbatch comprising 5% to 45% by weight of the wax and 55% to 95% by weight of the polymer and a second kneading substep in which an additional amount of the wax is added to the masterbatch followed by further kneading.

8. The process of producing a wax composition according to claim 7, wherein the first kneading substep is carried out by kneading the wax and the polymer at a temperature lower than the melting completion temperature of the wax.

9. The process of producing a wax composition according to claim 7 or 8, wherein the first kneading substep is carried out by putting the whole amount of the polymer in a kneader all at once and then adding the wax thereto in divided portions.

10. The process of producing a wax composition according to claim 9, wherein the divided portions of the wax each range from 1% to 15% by weight of the whole amount of the polymer.

11. The process of producing a wax composition according to claim 9, wherein the portion of the wax increases gradually with the number of times of adding the wax.

12. The process of producing a wax composition according to claim 7, wherein the first kneading substep is carried out by kneading the wax and the polymer in a batch kneader, the total amount of the wax and the polymer to be put in the batch kneader being 60% to 100% of the capacity of the kneader.

13. The process of producing a wax composition according to claim 7, wherein the second kneading substep is carried out by kneading the wax and the masterbatch at a temperature lower than the melting completion temperature of the wax.

14. The process of producing a wax composition according to claim 7, wherein the second kneading substep is carried out by putting the whole amount of the masterbatch in a kneader all at once and then adding the wax thereto in divided portions.

15. The process of producing a wax composition according to claim 14, wherein the divided portions of the wax each range from 5% to 30% by weight of the whole amount of the masterbatch.

16. The process of producing a wax composition according to claim 14, the portion

of the wax increases gradually with the number of times of adding the wax.

17. The process of producing a wax composition according to claim 7, wherein the second kneading substep is carried out by kneading the wax and the masterbatch in a batch kneader, the total amount of the wax and the masterbatch to be put in the batch kneader being at least 60% of the capacity of the kneader.